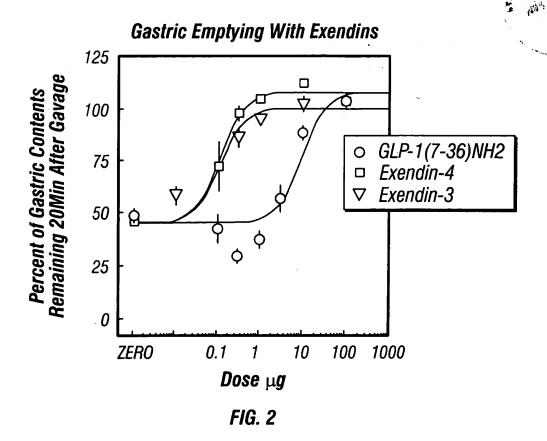
Glp-1 [SEQ.ID NO.3] NH_2 HAEGTFTSDV **EFIAWLVKGR** SSYLEGQAAK Exendin-3 [SEQ.ID. NO.1] PSSGAPPPS-NH2 **HSDGTFTSDL LFIEWLKNGG SKQMEEEAVR** Exendin-4 [SEQ.ID NO.2] PSSGAPPPS-NH₂ **SKQMEEEAVR HGEGTFTSDL LFIEWLKNGG** Exendin[9-39] [SEQ.ID NO.4] PSSGAPPPS-NH2 **LFIEWLKNGG** DL **SKQMEEEAVR**

FIG. 1



Gastric Emptying With Exendin-4 and Analogs

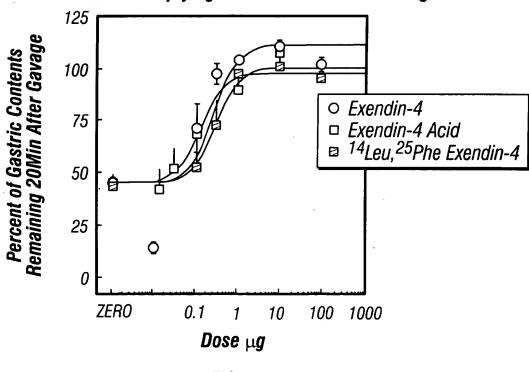
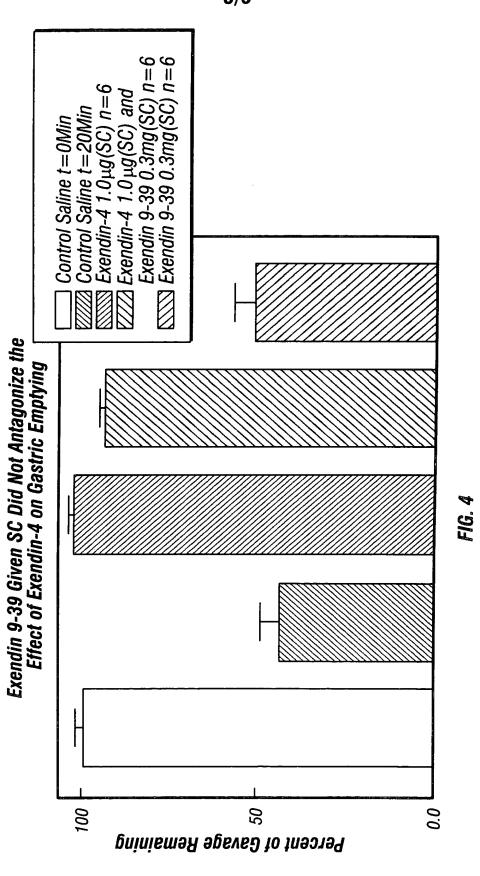
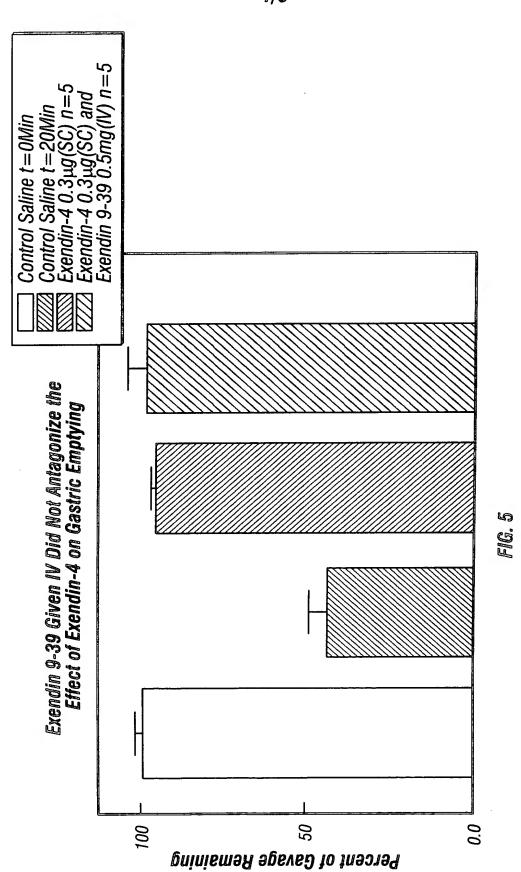
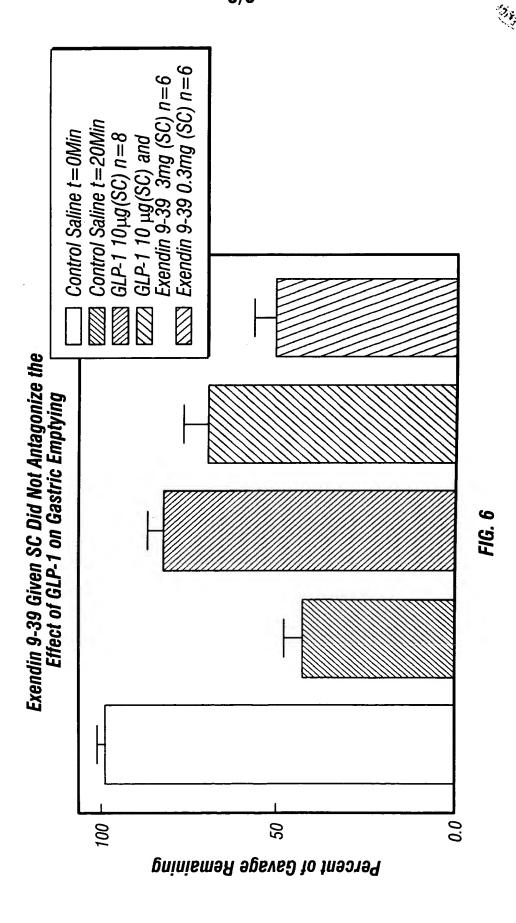


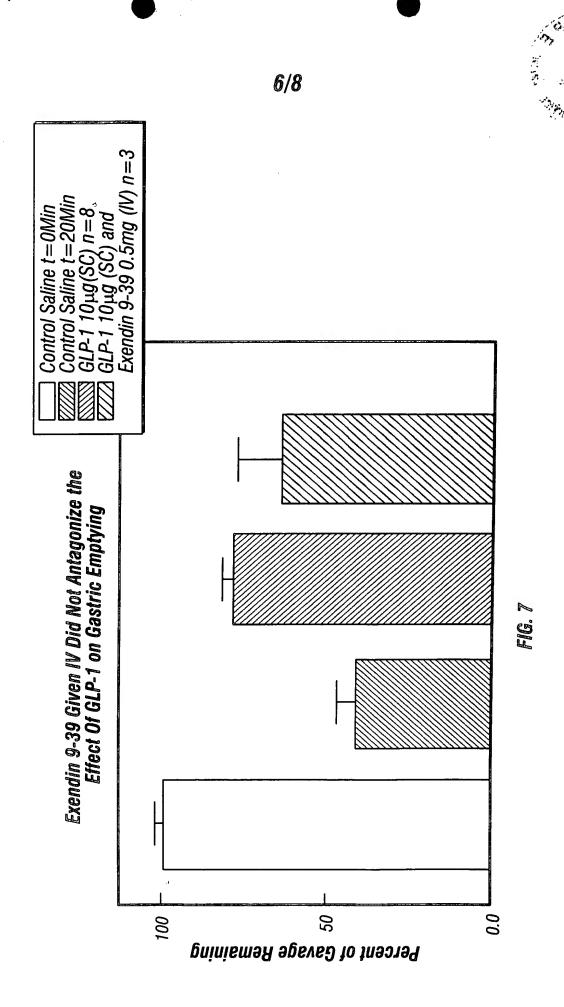
FIG. 3



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								, -										_
	пәт		7	NH ₂	NH2	NH_2	NH ₂	NH ₂	NH2	NH2	NH ₂	NH2	NH2	NH ₂	NH2	NH2	NH ₂	ľ
20	•	7-	(3318	Ser	Ser	Ser	Ser	Tyr	Ser	Ser	Ser	Ser	Ser	Ser	Ser	 		7
	Ala Val		(3847)	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro		Pro	1
	Glu A	aa 17 X	aa ₁₆ X	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	
	Olu	'aa 16 X	aa ₁₅ X	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	
15	_	Xaa ₁₅ Xaa ₁₆ Xaa ₁₇ Xaa ₁₈	aa ₁₄ X	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	1
	Xaag (Xaag Xaa10 Xaa11 Xaa12 Xaa13 Xaa14 Xaa15 Xaa16 Xaa17 Xaa18	Phe	<u>Tr</u>	Phe	d. Lt.	Trp	Trp	Trp	<u>L</u>	Trp	Trp	Trp	<u>Tr</u>	Phe	Trp	
	cu x	Gly	33 ₁₂ X	<u></u>	Glu	Glu	Glu	Glu	Glu	nle Ulle	Oll Oll	Glu	Glu	Glu	Glu	- Pi	Glu	
	rys (Ser (3a ₁₁ X	lle (lle (]le]]e	lle (lle (Ile]]e	lle (lle (]]e	lle (Ile	lle (
	Ser 1	Ser S	1a ₁₀ X	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	
0		Xaa 14 S	зад Ха	Leu P	eu P	Met P	Met p	Met P	Met P	Met P	Met P	Met P	Met P	Met P	Met P	Leu P	pGly P	
-	××		% X)d r	
	Xaa	Gy	Xaa ₈)	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu	pGly	pGly	Leu	
	Xaa ₆	Gly	Xaa ₇	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	<u> </u>	Asp	Asp	Asp	
	Xaa ₅ Xaa ₆ Xaa ₇ Xaa ₈	Asn	Xaa ₆	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Thr	Thr	Ser	Ser	Ser	Ser	
	Thr Xaa ₄ ,	Lys	Xaa ₅	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Ser	Ser	Thr	Thr	Thr	重	直	
2	Thr	Геп	Xaa4	Phe	Phe	Phe	Phe	Phe	Phe	naph	Phe	Phe	Phe	Phe	Phe	Phe	Phe	
	3.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	(aa ₁₃	Xaa ₃	Glu	Glu	Glu	Glu	Glu	Asp Phe	Glu naph	Glu Phe	Glu Phe	Glu	Glu	Glu	Glu	Glu	
	Хааз	(aa ₁₂)	Xaa ₂	Gly	Gly	Gly	Gly	Gly	Gļ	Gly	GŚ	Gly	Glý	<u>G</u>	Glý	Gly	Gly	
	Xaa2	(aa11)	Xaa ₁ Xaa ₂ Xaa ₃ Xaa ₄ Xaa ₅ Xaa ₆	His	His	His	Tyr	His	His	His	His	His	His	His	His	His	His	
1	Xaa ₁ Xaa ₂ Xaa ₃ Gly 25	Xaa ₁₀ Xaa ₁₁ Xaa ₁₂ Xaa ₁₃	Compound [SEQ.ID NO.]	1[5]	2[6]	3[7]	4[8]	[6]9]	6[10]	7[11]	8[12]	9[13]	10[14]	11[15]	12[16]	13[17]	14[18]	
		•																

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		,							,	,							
7	NH_2	NH2	NH ₂	NH2	NH ₂	NH ₂	NH ₂	NH,	H,	NH,							
Xaa6 Xaa7 Xaa8 Xaa9 Xaa10 Xaa11 Xaa12 Xaa13 Xaa14 Xaa15 Xaa16 Xaa17 Xaa18	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser			Ser	Ser
Xaa ₁₇	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	tPro	tPro	hPro	hPro	tPro	hPro	MeAla	MeAla	MeAla
Xaa ₁₆	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	tPro	tPro	hPro	hPro	tPro	hPro	MeAla	MeAla	MeAla
Xaa ₁₅	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	tPro	tPro	hPro	hPro	tPro	hPro	MeAla	MeAla	MeAla MeAla MeAla MeAla
Xaa ₁₄	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Pro	tPro	Pro	hPro	Pro	tPro	hPro	MeAla	Pro	
Xaa ₁₃	Phe	Trp	Trp	Phe	Trp	Phe	Trp	Phe	Trp	Trp	Τ̈́	Trp	Phe	Phe	ŢŢ	T _C	Phe
Xaa ₁₂	Glu	Glu	Glu	Glu	Glu	Glu	Asp	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Olu	njg	Glu
Xaa ₁₁	lle	lle	Val	Val	tBuG	tBuG	Ile	Ile	Ile	Ile	Ile	Ile	Ile	Ile	Ile	Ile	Ile
Xaa ₁₀	Phe	naph	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe							
Xaag	pGly	Met	Met	Leu	Met	Leu	Met	Leu	Met	Met	Met	Met	Leu	Leu	Met	Met	Leu
Xaa ₈	Leu	Leu	Leu	Leu	ren	ren	Leu	Leu	Leu	ren	Leu	Leu	Leu	Leu	Leu	ren	ren
Xaa7	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp	Asp
Xaa ₆	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser
Xaa ₅	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr
Xaa₄	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe
Xaa ₁ Xaa ₂ Xaa ₃ Xaa ₄ Xaa ₅	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu
Xaa ₂	Gly	Glý	Glý	Gly	Gly	Gly	Gly	Ala	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	G G
Xaa1	His	His	His	His	His	His	His	His	His	His	His	His	His	His	His	His	His
Compound [Seq.ID NO.]	15[19]	16[20]	17[21]	18[22]	19[23]	20[24]	21[25]	22[26]	23[27]	24[28]	25[29]	26[30]	27[31]	28[32]	29[33]	30[34]	31[35]

FIG. 8B